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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,816	12/15/2005	John Simpson	41577/318243	8948
23370 JOHN S. PRAT	7590 09/24/200 FT. ESO	EXAMINER		
KILPATRICK STOCKTON, LLP			DINH, TIEN QUANG	
1100 PEACHTREE STREET ATLANTA, GA 30309			ART UNIT	PAPER NUMBER
			3644	
			NAME OF THE PROPERTY OF THE PR	
			MAIL DATÉ	DELIVERY MODE
			09/24/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/542,816	SIMPSON, JOHN			
Office Action Summary	Examiner	Art Unit			
	Tien Dinh	3644			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
Responsive to communication(s) filed on      This action is <b>FINAL</b> . 2b)⊠ This      Since this application is in condition for allowan closed in accordance with the practice under E.	action is non-final. ice except for formal matters, pro				
Disposition of Claims					
4)  Claim(s) 1-7 and 9-13 is/are pending in the approach 4a) Of the above claim(s) is/are withdraw 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-7 and 9-13 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/or Application Papers	vn from consideration.  election requirement.				
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner.	epted or b) objected to by the formula of the following of the held in abeyance. See too is required if the drawing (s) is object to be seen to	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/17/06.	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:	ate			

Art Unit: 3644

### **DETAILED ACTION**

# Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the slot, rotatable bearing, and the folding mechanism must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 12 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

It is not know how the folding mechanism works with respect to the wing and the wing elements. How does it work?

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, 9, 10, 11, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Zuck 4928907.

Zuck discloses a wing on a compound helicopter having wing elements 2 that are positioned from a first position to a second position. See figure 2. The means for moving the

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wing elements are shown in figures 25, 26. The wing is rotatable is mounted on a driven shaft/rotary bearing 17.

Re claim 9, please note that the wing is 1. The wing elements are now element 13. These elements are positioned form a first to a second position. See figure 5A. The wing elements are independently rotatable from each other to control torque. See abstract and column 4.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 5, 6, 7, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thomas 1822179 in view of Von Ohain et al 3770227 or Sutterfield et al.

Thomas discloses an aircraft having a wing that has wing elements 14, 16, 17 that rotates from a first position to a second position. Thomas also teaches a pylon or wing tip end piece as best viewed on figure IV. A wing element (made up of wing elements that is attached to part 9) is considered to be a single wing element and since there is a space between them, this is considered to be the slot. The slot is capable of receiving a portion of a pylon. Thomas is silent on the shaft/driven rotary bearing. However, Von Ohain et al teaches shaft/rotary bearings 46 to rotate wing elements are well known. Sutterfield et al teaches shafts 42, 242, etc. to rotate wing

elements are well known. These shafts allow the wing elements to be positioned anywhere from the first to second position.

It would have been obvious to one skilled in the art the time the invention was made to have used shafts/rotary bearings in Thomas's system as taught by Von Ohain et al or Suttlerfield et al to for easier and more accurate control of the wing elements.

Re claim 12, the examiner takes official notice that folding mechanisms are well known in this day and age and that one skilled in the art would have used such devices on Thomas's system as a way to save space when the aircraft is in storage.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Bertin et al, Seager, Myers, Wilde et al, and Rabouyt disclose wing elements.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tien Dinh whose telephone number is 571-272-6899. The examiner can normally be reached on 9-6.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Teri Luu can be reached on 571-272-7045. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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